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COUNTRY USSR (Krasnodar Krai)

SUBJECT Power Plant at Krasnaya Polyana

25X1A

PLACE
ACQUIRED

DATE OF INFO.

DATE DISTR. 29 February 1952

NO. OF PAGES 2

NO. OF ENCLS.
(LISTED BELOW)

SUPPLEMENT TO
REPORT NO.

25X1X

1. When the Krasnaya-Polyana (43-41N, 40-13E) Power Plant put two turbines into operation in August 1949, the throttle valves in the throttle chamber were too weak and the entire building was flooded. Soviet foremen said that the throttles were constructed for a pressure of four atmospheres, while the pipe line had a pressure of 12.
2. Power production started with two turbines on 9 November 1949. Soviet fitters stated that the other two turbines would be set up by the end of 1949. * All four turbines had the same capacity, 7,500 kilowatts, as was seen from the plates showing the type.
3. The supply pipes, which were 3 meters in diameter at the lock, narrowed to 2.6 meters at the turbine house, and to about 0.5 meters at the turbine chambers. The pipes were made of seamless steel 22 mm thick.
4. The water was directed through a nozzle to the turbine blades of the turbine wheel, about 1.8 meters in diameter and 50 to 60 cm high. The turbine had a cast iron casing, about 2.5 meters in diameter and about 2 meters high. The vertical shaft was about six meters long and 15 to 20 cm in diameter. Half of the turbine casing extended above the tile floor of the turbine house.
5. The plates on the turbines also indicated a maximum of 600 rpm. Two turbines were in one chamber, installed three meters apart.
6. Two transformers were attached to the turbine house facing the reservoir. These two transformers and the insulators of the transformer station were connected by three copper conductor rails each. The transformer station was surrounded by an iron fence, 1 meter high. Two of the 10 insulator masts were used for the local current supply, while six others fed high tension lines. Oil pressure switches, 2 meters high and 1.5 meters in diameter, were beside the insulator masts and were connected with them by three copper rails.
7. A high tension line with five wires ran from the transformer station between the road and the mountain brook in the direction of Sochi. The masts were about 30 meters high and 150 meters apart. While PWs said that the power plant was to supply current to the town of Sochi, it was learned from the Soviet foreman that

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Document No. 009
No Change in Class. ☒
☐ Declassified
Class. Changed To: TS S C
Auth: NR 70-2
P2 0045 2006870050017-9
Date: 7/27/97 By: 078

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the plant was to supply the electrified railroad. Sochi had its own power plant and additional power sources were to be constructed for the electrified railroad system.

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